

POUNDS

Kg

weight is a force

direction down

Vector

MASS is Accumulation
Of all of The parts of the
body

Weight Vector ↓ Newtons
Symbol: W (N)

MASS ↑ Scalar kg Kilograms
 m

MASS DOES NOT Change
With LOCATION

$$W = m g$$

↑
weight

└─ mass

└─ acceleration due to Gravity

| | | |
|---------|---------|------------------------|
| Sun | gravity | 274.1 m/s ² |
| mercury | | 3.6 m/s ² |
| Venus | | 8.9 m/s ² |
| Earth | | 9.8 m/s ² |
| MARS | | 3.8 m/s ² |
| Jupiter | | 26.0 m/s ² |
| Saturn | | 11.1 m/s ² |
| URANUS | | 10.7 m/s ² |
| Neptune | | 14.1 m/s ² |
| MOON | | 1.6 m/s ² |